



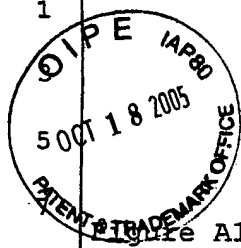
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provision to identify and isolate the route line or other chart features by means of a mouse or other input device. Thus, on Internet flight planners of prior art the route must be generated and built on the Server. Then once built and combined as a new image the Server must upload the image onto the Client computer. This forces the screen to be totally refreshed, which again produces the undesirable side effect of the user losing his reference and adding confusion to the planning process.

Now observing Figure <sup>13</sup>, and in accordance with an important aspect (one of the main features) of the invention these shortcomings are overcome by means of:

- 1) A Chart Scrolling software system (28), residing on an Internet Server hard disk (8), which facilitates chart scrolling and chart viewing without refreshing the entire Client computer display (27). Pursuant to the invention, the loaded chart (29) is always larger (e.g. the absolute X, Y, pixel dimension) than the assigned chart window area (30) residing on the Client Display (28). This provides two very important benefits. First, it allows the Client's browser to turn on the scroll bars, and second, as a result, the chart may be scrolled up to the limit of the underlying loaded chart,
- 2) In the preferred embodiment, if the chart scrolling results in moving past an area beyond the bounds of a previously loaded chart, a window pops up and informs the user that a new chart segment is being loaded. During this loading process, the previously loaded chart remains on screen (e.g. the user is able to view the remaining chart without losing his reference). A new cached chart is then delivered to the Client corresponding to the newly desired chart

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Brief Description of the Drawings

Figure A1 is a flow chart of the operations that comprise the Server.

Figure A2 is a flow chart of the operations that comprise chart creation.

Figure A3 is a flow chart of the Chart retrieval, Scrolling, and Route drawing Routing System.

~~Figure A4 illustrates the chart retrieval, scrolling and route drawing processes.~~ No such figure.